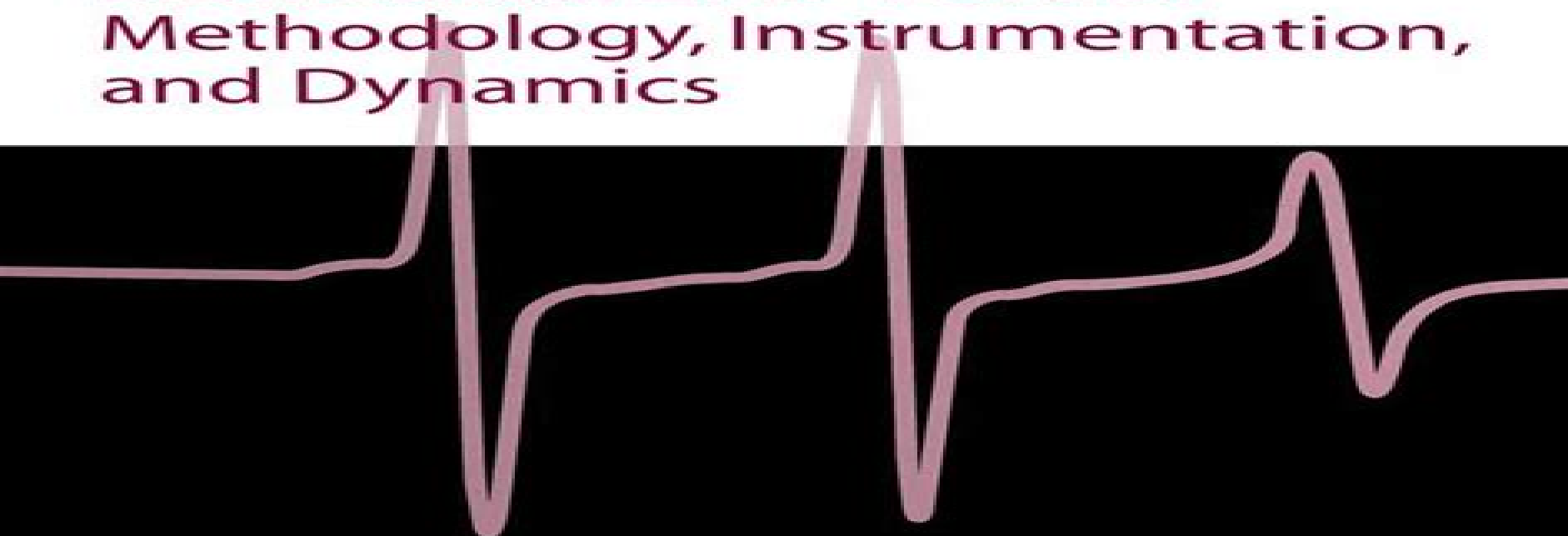


Biomedical EPR- Part B: Methodology, Instrumentation, and Dynamics



Sandra S. Eaton
Gareth R. Eaton
Lawrence J. Berliner

Biomedical Epr Part B Methodology Instrumentation And Dynamics Biological Magnetic Resonance

**Sandra S. Eaton, Gareth R.
Eaton, Lawrence J. Berliner**



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Spin Resonance Spectroscopy Chandran Karunakaran, 2018-01-02 Spin Resonance Spectroscopy Principles and Applications presents the principles recent advancements and applications of nuclear magnetic resonance NMR and electron paramagnetic resonance EPR in a single multi disciplinary reference Spin resonance spectroscopic techniques through NMR and EPR are widely used by chemists physicists biologists and medicinal chemists This book addresses the need for new spin resonance spectroscopy content while also presenting the principles recent advancements and applications of NMR and EPR simultaneously Ideal for researchers and students alike the book provides a single source of NMR and EPR applications using a dynamic holistic and multi disciplinary approach Presents a highly interdisciplinary approach by including NMR and EPR applications in chemistry physics biology and biotechnology Addresses both NMR and EPR making its concepts and applications implementable in multiple resonance environments and core scientific disciplines Features a broad range of methods examples and illustrations for both NMR and EPR to aid in retention and underscore key concepts

Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels, Spin Probes, and Intrinsic Metal Ions Part A, 2015-10-05 Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels Spin Probes and Intrinsic Metal Ions Part A B are the latest volumes in the Methods in Enzymology series continuing the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers research methods centered on the use of Electron Paramagnetic Resonance EPR techniques to study biological structure and function Timely contribution that describes a rapidly changing field Leading researchers in the field Broad coverage Instrumentation basic theory data analysis and applications

Quantitative EPR Gareth R. Eaton, Sandra S. Eaton, David P. Barr, Ralph T. Weber, 2010-04-10 There is a growing need in both industrial and academic research to obtain accurate quantitative results from continuous wave CW electron paramagnetic resonance EPR experiments This book describes various sample related instrument related and software related aspects of obtaining quantitative results from EPR experiments Some specific items to be discussed include selection of a reference standard resonator considerations Q B B power saturation sample position 1 m ing and nally the blending of all the factors together to provide a calculation model for obtaining an accurate spin concentration of a sample This book might at rst glance appear to be a step back from some of the more advanced pulsed methods discussed in recent EPR texts but actually quantitative routine CW EPR is a challenging technique and requires a thorough understanding of the spectrometer and the spin system Quantitation of CW EPR can be subdivided into two main categories 1 intensity and 2 magnetic eld mic wave frequency measurement Intensity is important for spin counting Both re tive intensity quantitation of EPR samples and their absolute spin concentration of samples are often of interest This information is important for kinetics

mechanism elucidation and commercial applications where EPR serves as a detection system for free radicals produced in an industrial process. It is also important for the study of magnetic properties. Magnetic field microwave frequency is important for g and nuclear hyperfine coupling measurements that reflect the electronic structure of the radicals or metal ions.

Electron Spin Interactions in Chemistry and Biology Gertz Likhtenshtein, 2016-07-25. This book presents the versatile and pivotal role of electron spin interactions in nature. It provides the background methodologies and tools for basic areas related to spin interactions such as spin chemistry and biology, electron transfer, light energy conversion, photochemistry, radical reactions, magnetochemistry and magneto biology. The book also includes an overview of designing advanced magnetic materials, optical and spintronic devices and photo catalysts. This monograph will be of interest to scientists and graduate students working in the areas related to spin interactions, physics, biophysics, chemistry and chemical engineering.

Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels, Spin Probes, and Intrinsic Metal Ions Part B, 2015-10-08. Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels, Spin Probes and Intrinsic Metal Ions Part A B are the latest volumes in the Methods in Enzymology series, continuing the legacy of this premier series with quality chapters authored by leaders in the field. This volume covers research methods centered on the use of Electron Paramagnetic Resonance (EPR) techniques to study biological structure and function. Timely contribution that describes a rapidly changing field. Leading researchers in the field. Broad coverage. Instrumentation, basic theory, data analysis and applications.

Carotenoids John T. Landrum, 2009-12-21. Carotenoids are of great interest due to their essential biological functions in both plants and animals. However, the properties and functions of carotenoids in natural systems are surprisingly complex. With an emphasis on the chemical aspects of these compounds, *Carotenoids: Physical Chemical and Biological Functions and Properties* presents a b

Pulsed Electron-Electron Double Resonance Yuri D. Tsvetkov, Michael K. Bowman, Yuri A. Grishin, 2018-12-28. This book covers the basic theory and techniques as well as various applications of pulsed electron-electron double resonance (PELDOR or DEER). This electron paramagnetic resonance technique is able to measure the distances and the distribution of distances between electron spins in the 1.5–15 nanometer scale to determine the geometry of spin-labeled molecules, to estimate the number of interacting spins in spin clusters and to characterize the spatial distribution of paramagnetic centers. As a result, PELDOR is now a popular method in EPR spectroscopy, particularly in the context of biologically important systems and soft matter, and is also applied to problems in physical chemistry, biochemistry, polymers, soft matter and materials. Enabling readers to gain an understanding of the fundamentals of the PELDOR methods and an appreciation of the opportunities PELDOR provides, the book helps readers solve their own physical and biochemical problems.

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